

This listing of claims, dated 08/18/2006, will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (currently amended) A combined support structure and cooling duct system directed to physical support and cooling of an electronic circuitry in a control console of an x-ray food inspection station having a desk-top type enclosure of designated height, comprising:

~~a console enclosure containing the electronic circuitry in an interior region thereof, and~~

~~a heat-dissipating tubular duct unit, external to the console enclosure, having two side-by-side vertical straight tubular duct portions with upper ends that are connected to a bottom panel of the console enclosure in a manner to be in airflow communication with the interior region of the console enclosure which is otherwise made substantially airtight, the straight tubular duct portions extending downwardly from the console enclosure by a dimension exceeding the designated height thereof to lower ends that are mutually interconnected in airflow communication thus forming a closed loop air passageway that includes the duct unit and the console enclosure, the duct unit being made and arranged to also contribute substantially to provide a major portion of structural support of the control console enclosure.~~

2. (currently amended) The combined support structure and cooling duct system as defined in claim 1 further comprising a first electric fan located near a first end port region of the said heat-dissipating tubular duct unit, made and arranged to promote circulation of air around the closed loop air passageway.

3. (currently amended) The combined support structure and cooling duct system as defined in claim 2 further comprising a second

electric fan located near a second end port region of the said heat-dissipating tubular duct unit, made and arranged to further promote circulation of air around the closed loop air passageway.

5. (currently amended) The combined support structure and cooling duct system as defined in claim 2 further comprising a base platform, made and arranged to provide ground-level support of the console enclosure, attached in a supportive manner to the said heat-dissipating tubular duct in a lower region thereof.

6. (currently amended) The combined support structure and cooling duct system as defined in claim 5 further comprising a straight elongate support strut attached to the base platform and the bottom panel of the console enclosure, and extending there between in a predominantly vertical inclined direction, providing a minor portion of the structural support of the control console.

7. (currently amended) The A combined support structure and cooling duct system as defined in claim 6 wherein the providing physical support and cooling of electronic circuitry in a control console of a type suitable for use in conjunction with an x-ray food inspection station, comprising:

a console enclosure containing the electronic circuitry in an interior region thereof; and

a heat-dissipating duct, external to the console enclosure, having two ends that are both in airflow communication with the interior region of the console enclosure which is otherwise made substantially airtight, thus forming a closed loop air passageway that includes said duct and the console enclosure, said duct being made from metal in tubular form, configured in a U-shape with both upwardly-extending legs connected to a bottom panel of the console enclosure at respective through-openings, and being made and arranged to also provide a major portion of structural support of the control console;

a first electric fan located near a first end region of

said heat-dissipating duct, made and arranged to promote circulation of air around the closed loop air passageway;
a base platform, made and arranged to provide ground-level support of the console enclosure, attached in a supportive manner to said heat-dissipating duct in a lower region thereof; and
a straight support strut is configured as a metal tube attached to the base platform and the bottom panel of the console enclosure, and extending there-between in a predominantly vertical inclined direction.

8. (currently amended) The combined support structure and cooling duct system as defined in claim 7 wherein the said straight support strut is made and arranged to serve as a conduit for an interconnecting cable associated with the electronic circuitry.

9. (new) The combined support structure and cooling duct system as defined in claim 7 further comprising a second electric fan located near a second end region of said heat-dissipating duct, made and arranged to further promote circulation of air around the closed loop air passageway.

10. (new) The combined support structure and cooling duct system as defined in claim 1 wherein said heat-dissipating duct unit is configured in a U-shape with the two straight tubular duct portions mutually interconnected, at the lower ends thereof, contiguously and seamlessly in airflow communication by a semi-circular tubular duct portion forming a bottom region of the U-shape.

11. (new) The combined support structure and cooling duct system as defined in claim 6 wherein the straight elongate support strut is made and arranged to serve as a conduit for an interconnecting cable associated with electronic circuitry in the control console.